

# CALCIUM GLUCONATE for slow intravenous injection

## Presentation

- Calcium gluconate 10% contains 0.22 mmol calcium in 1ml (10ml amps)

## Prescribing

Prescribe in terms of calcium salt (i.e. the amount of calcium in mmol to give) on the once only section of drug chart for "bolus" doses.

- Dose for "bolus": 0.1 mmol/kg (maximum 4.5 mmol) over 10 minutes.

## Storage

Store at room temperature

## Preparation/ Dilution

Dilute to at least 0.04 mmol/ml i.e. dilute to five times volume for peripheral administration using sodium chloride 0.9%.

Can be given undiluted via central access.

## Route of Administration

Preferably via central access. If only peripheral access available, then dilute to five times volume. Ensure patent IV access prior to administration.

## Rate of Administration

"Bolus" dose over 10 minutes.

Continuous infusions have been used, maximum 1mmol/hour.

## Stability

Use immediately - assign expiry of 1 hour on IV additive label.

## Flushes

Sodium chloride 0.9%.

## Common Compatibilities at Terminal Y-site

IV maintenance fluids containing sodium chloride or glucose, with or without potassium chloride.

## Monitoring/ Other comments

If there are any signs of bruising or mottled skin around cannula site, injection must be stopped immediately and referral made to clinician and plastic surgery team.

## Extravasation Risk

Extravasation of calcium salts are serious. If any signs of mottling, bruising or any suspicion of extravasation stop infusion and inform senior staff member and plastic surgery team on call immediately.

Extreme of pH	Hyperosmolar	Vasoactive	Vesicant
No pH 6-7	No	No	Yes

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## Calculation example

6.8 kg child with ionised calcium of 0.8 mmol/L requiring calcium replacement of 0.1 mmol/kg.

Prescribe on the once-only section of drug chart as below:

### PRESCRIPTION FOR ONCE-ONLY

Date and Time to be given	Medicine (Approved Name)	Dose	Route	Prescriber's Signature & PRINT
1/2/12 08:00	CALCIUM GLUCONATE	0.7mmol	IV	<i>Dr Jones</i> JONES 213
<b>Over 10 minutes dilute to 15ml</b>				

Prepare as follows:

Draw 3.2 ml of calcium gluconate and make up to 15 mls using sodium chloride 0.9%. Label syringe as per Trust Policy. Attach to IV line and give over 10 minutes via syringe pump.